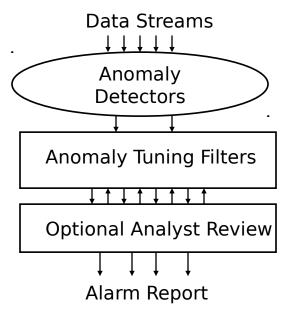
Architecture



Impact



- Will be usable for detecting unusual or intrusive behavior in securitycritical arenas, as well as in a wide variety of process and missioncritical systems.
- Will improve detector accuracy through use of benchmark data sets.
- Will dramatically reduce system downtime due to early warnings provided by anomaly trending & event prediction.

New Ideas

- Detecting unanticipated anomalies.
- Calibrated benchmark data sets.
- Selecting critical variables from high-dimensional data sets using local, not global, estimates of dimensionality.
- Visual confirmation of anomaly alarms.
- Synthesizing datasets for sensitivity tests.
- Making a synthetic environment available as a World Wide Web

Schedule.

- Year 1: Designing & prototyping
 - Synthesizing data
- Year 2: Hardening prototypes
 - Acquiring industrial
 - partner/data
 - Benchmarking
 - Piloting WWW site
- Year 3: Operating on industrial data
 - Evaluating effectiveness
 - Unrestricted access WWW site